

# P2494R 2U Rugged Server

- ▶ Rugged Industrial Compact 2U Server
- ▶ Shock Mounted Storage
- ▶ Embedded Multi-Core Processors
- ▶ AC or DC Power Supplies
- ▶ Shock and Vibration Tolerant
- ▶ Direct PC Interface Access
- ▶ Hot Swap Disk Storage Options
- ▶ Low Depth - Just 500mm



Westek's P2494R low depth Rugged 2U Server is designed for use in high and low temperature environments where rugged connectors are not required. Westek's range of Rugged Servers are ideal for use in hostile environments including military COTS use where a high performance computer server with a wide operating temperature is required.

The P2494R provides a rugged single i3, i5, i7 or dual multi-core Xeon server capability with up to 6 hot swap SSDs with RAID data protection, redundant power supply options and high performance hot swap cooling module in a compact rugged 2U rack mountable chassis.

The server uses specialised wide operating temperature disk drives with a high operating shock and vibration tolerance with the added protection of a hot swappable RAID data protection in typical configurations. Solid State (SSD) disk drives are recommended for more extreme environments. High performance forced air cooling with electronic speed control ensures reliability at high operating

## Typical build specification:

- Two high performance multi-core Xeon processors
- 128GB DDR3 memory
- Dual Gbit Ethernet interfaces (expandable)
- Front access hot swap fans and lifetime cleanable dust filter
- Rear rugged MIL I/O connectors
- 4 x removable, shock mounted SSDs
- AC or DC power supply
- RAID 0/1/5/10 protection
- Conformal coating for use in humid environments
- Automatic temperature dependant electronic fan speed control for long term reliability
- Intel® high performance graphics



*Standard type rear connectors*

temperatures. Air flow is front to rear and the server uses lifetime fine stainless steel mesh dust filters which are easy to clean and never need to be replaced.

## Server Options (Xeon Option Shown)

- ▶ Intel® C612 series chipset server engine
- ▶ Single or dual embedded E5-2600 series Xeon processors
- ▶ Up to 14 cores per processor
- ▶ Up to 256GB DDR4 memory
- ▶ On-board RAID 0, 1, 5 and 10 support
- ▶ Dual or quad 10/100/1000 Ethernet ports
- ▶ Up to 6 USB ports
- ▶ Integrated high performance graphics options
- ▶ Options for 10GBaseT 10Gbit Ethernet



## Storage

Options for 2, 4 or 6 removable 2.5" SSD disks from 128GB to 2TB+. A slim line DVD / Blu Ray R/W is also available as an option.

## Expansion and I/O

Optional performance graphics or other special interfaces may also be specified. Rear access to the standard PC interface is provided. If rugged MIL connectors are required please see the other rugged servers in our extensive range.

## Environment

Actual specification depends on configuration.

### **Operating**

Temperature: -20 °C to +55 °C

Humidity: 10 to 95% Non-Condensing\*

Vibration: 3G+ (SSD) 10Hz to 500Hz

Shock: 20G / 11mSec

Altitude: -300 to +5000 metres

\* With Westek's conformal coating option

### **Non-Operating**

Storage: -40 °C to +70 °C

Vibration : up to ~4G 10Hz to 500Hz

Shock : 40G / 11mSec

Altitude: -300 to +12000 metres

## Physical

Dimensions: 431(W) x 88(H) x 500(D) mm

Weight (Net): approximately 14kg (depending on build options and connectors)

CE Compliance: EEC EMC and Safety. Designed to meet UL and FCC requirements

RoHS Compliant

## Power

Dual Redundant Auto-ranging AC power Supply 96~265V AC

Options for DC 12V/24V/28V also available. Typical power consumption <200W operating

Optional EMI filter to meet MIL-STD 461F Conducted Emissions

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Specifications subject to change without notice

